

Bioassays of

Rayonier Incorporated

Fernandina Beach, Nassau County, Florida

NPDES #FL0000701

Sampled 6/3/02

January 2003

Biology Section

Division of Resource Assessment & Management

Comprehensive Quality Assurance Plan #870346G

Bioassays of

Rayonier Incorporated

Fernandina Beach, Nassau County, Florida

NPDES #FL0000701

Biology Section
Bureau of Laboratories
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Rayonier, Incorporated, Gum Street, Fernandina Beach, Nassau County, Florida, NPDES #FL0000701, tests performed on 4 to 6 June 2002.

Introduction

This chemical cellulose pulp mill has a design capacity of 26.31 MGD and an average flow of 14 MGD (March 2002 through July 2002). The industrial wastewater treatment system consists of grit removal, neutralization, primary clarification, and a 34-acre mechanical aeration lagoon. Wastewater is discharged into the Class III marine waters of the Amelia River. The facility has mixing zones for dissolved oxygen, toxicity, iron, aluminum, nickel, copper, lead, and zinc. The toxicity mixing zone is such that the LC50 shall not be less than 30% at the end of pipe. Compliance with the mixing zones for iron, aluminum, nickel, copper, lead, and zinc is based on effluent concentrations of 2.4 mg/L, 3.0 mg/L, 66.4 ug/L, 64 ug/L, 40 ug/L, and 410 ug/L, respectively, at the end of pipe (facility information provided by Jeremy Richarde, FDEP, Jacksonville).

Methods

Samples were collected by Jeremy Richarde following DEP-SOP-001/01 FS 2400 Wastewater Sampling. All DEP SOP's are available on the web at: http://www.floridadep.org/labs/qa/sops.htm

The toxicity tests discussed in this report were performed following internal DEP SOP's TA07-03 and TA07-04. All internal DEP SOP's are available on the web at: http://www.floridadep.org/labs/cgi-bin/sop/biosop.asp.

The sample was salt adjusted with 40 fathoms artificial sea salts per permit specifications from an apparent salinity of 2.7 ppt to a salinity of 22.7 ppt. The salt control was developed by salting 2.7 ppt artificial seawater with forty fathoms artificial sea salts to a final salinity of 22.7 ppt. The effluent was tested at a 30% dilution as specified in the permit. The 30% sample was aerated for 15 minutes to increase the dissolved oxygen from 4.2 mg/L to 6.5 mg/L.

Toxicity Test Results

Americamysis bahia 48-hr acute screen – Not Toxic
Menidia beryllina 48-hr acute screen – Not Toxic

See Table 1 for bioassay bench sheets.

Chemistry Results

Total residual chlorine was not detected in the bioassay sample in the laboratory.
Total ammonia and unionized ammonia were detected at concentrations of 1.19 mg/L and 0.102 mg/L, respectively, in the bioassay sample.

See Table 2 for chemicals detected in the analytical chemistry samples.
The metals copper, iron, and nickel were detected at concentrations above the Criteria for Surface Water Quality Classifications (FAC 62-302.530), however the concentrations were in compliance with allowable mixing zone concentrations.

See Table 3 for a complete list of chemical analyses performed.

Conclusion

The salinity-adjusted sample of effluent collected from this facility on June 3, 2002 did not show acute toxicity to either test species during the 48-hour bioassay tests.

Table 1. Data recorded during the 48-hour acute screening bioassays of a sample of effluent from Rayonier, Incorporated, Gum Street, Fernandina Beach, Nassau County, Florida, NPDES# FL0000701, performed from 4 to 6 June 2002.

Facility:	**Rayonier, Incorporated**		**NPDES #**	**FL0000701**	Facility Type:	**cellulose pulp mill**	**Analysts:** Jacquelyn Brynda
Location:	Gum Street, Fernandina Beach		Contact/District:	Richarde/NE			Gary Hardie
County:	Nassau		Test type:	static acute screen			Marshall Faircloth
Sample Collection Date:	6/3/2002	Time: 0850	# tests:	2	Receiving Water:	Amelia River	
Test Beginning Date:	6/4/2002	Time: 1330	Chlorination Type:	non-chlorinated		Class III Marine	
Test Ending Date:	6/6/2002	Time: 1330					
				Page 1 of 1			**Reviewer:** David Whiting

Organism: ***Americamysis bahia*** Life stage: 3 days

		SURVIVAL # Alive			pH			Temperature[A]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	8.4	8.3	8.2	24.3	24.6	24.5	6.8	5.9	5.9	27.8	33.4
Control B	0/500	5	5	5	8.4	8.3	8.2	24.3	24.4	24.6	6.6	5.9	6.2	30.6	33.4
Control C	0/500	5	5	5	8.4	8.3	8.3	24.2	24.6	24.6	6.8	5.9	6.1	30.9	33.9
Control D	0/500	5	5	5	8.4	8.3	8.3	24.2	24.5	24.6	6.7	5.9	6.2	30.9	33.4
Salt Control A	0/500	5	5	5	8.4	8.3	8.2	24.8	24.6	24.6	6.9	5.4	6.1	35.0	37.2
Salt Control B	0/500	5	5	5	8.4	8.3	8.2	24.9	24.6	24.7	6.6	5.4	6.1	35.3	37.6
Salt Control C	0/500	5	5	5	8.4	8.3	8.2	24.9	25.1	24.7	6.7	5.5	6.0	35.1	37.3
Salt Control D	0/500	5	5	5	8.4	8.3	8.2	24.9	24.6	24.7	6.6	5.5	6.0	35.5	37.1
30% A[F]	150/350	5	5	5	8.2	8.1	8.2	24.8	24.7	24.5	6.7	5.0	5.7	35.1	38.4
30% B	150/350	5	5	5	8.2	8.0	8.2	24.8	25.2	24.7	6.4	5.0	5.9	35.4	34.9
30% C	150/350	5	5	4	8.2	8.0	8.2	24.7	25.0	24.7	6.4	4.2	5.6	35.3	36.3
30% D	150/350	5	5	4	8.2	8.0	8.2	24.7	24.6	24.7	6.4	3.8	5.7	35.4	37.1

[A] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.0-25.5 °C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[B] The sample was salt adjusted to ~22.7ppt with fourty fathoms artificial sea salts.
[F] Sample was aerated for 15 minutes to increase the dissolved oxygen from 4.2 mg/L to 6.5 mg/L.

Organism: ***Menidia beryllina*** Life stage: 13 days

		SURVIVAL # Alive			pH			Temperature[C]			Dissolved Oxygen			Conductivity Uncorrected mmhos/cm	
Concentrations	Volume(mL)	0 hr	24 hr	48 hr	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	24 hour	48 hour	0 hour	48 hour
Control A	0/500	5	5	5	8.4	8.3	8.4	24.3	25.4	24.6	6.8	6.2	5.7	29.5	32.3
Control B	0/500	5	5	5	8.4	8.3	8.4	24.2	25.2	24.7	6.7	6.1	6.1	30.7	33.1
Control C	0/500	5	5	5	8.4	8.3	8.4	24.2	25.0	24.7	6.7	6.2	6.1	31.1	33.3
Control D	0/500	5	5	5	8.4	8.3	8.4	24.2	24.6	24.6	6.7	6.1	6.3	31.5	33.6
Salt Control A	0/500	5	5	5	8.4	8.3	8.4	24.8	24.9	24.6	6.9	6.1	6.1	34.7	36.9
Salt Control B	0/500	5	5	5	8.4	8.3	8.4	24.8	24.7	24.7	6.6	6.0	6.1	35.2	37.4
Salt Control C	0/500	5	5	5	8.4	8.3	8.4	25.0	24.8	24.7	6.7	6.1	6.0	35.5	37.5
Salt Control D	0/500	5	5	5	8.4	8.3	8.4	25.0	24.6	24.7	6.5	6.1	6.1	35.4	37.1
30% A[G]	150/350	5	5	5	8.2	8.1	8.3	24.8	24.5	24.6	6.7	5.2	5.2	34.9	37.4
30% B	150/350	5	5	5	8.2	8.1	8.3	24.8	24.8	24.8	6.5	5.2	5.2	35.0	37.8
30% C	150/350	5	5	5	8.2	8.1	8.3	24.7	24.4	24.7	6.4	5.0	4.9	35.2	37.4
30% D	150/350	5	5	5	8.2	8.1	8.3	24.7	24.5	24.6	6.3	5.0	5.0	35.5	37.4

[C] Temperatures of room and test incubator were continuously recorded on a strip chart recorder.
Room Temperature range for the test period was 22.0-25.5°C.
Incubator #3 temperature range for the test period was 24.5-25.5°C.

[D] The sample was salt adjusted to ~22.7ppt with fourty fathoms artificial sea salts.
[G] Sample was aerated for 15 minutes to increase the dissolved oxygen from 4.2 mg/L to 6.5 mg/L.

LIMS	
Job number:	TLH-2002-06-04-38
sample number:	596758

Data Transcription Verification	
date:	11/14/2002
by:	Joshua Ayres
	Christa Pierini

Total Residual CL2	mg/L	Method
Field:	-	-
Lab:	<0.30[H]	Hach

[H] Sample was diluted 10X's due to salinity increasing the PQL from <0.03 to <0.3

Ammonia	Total (mg/L)	Unionized (mg/L)
Control water :	<0.034	<0.034
30% Sample:	1.19	0.102

Alk & Hardness	Alkalinity (mg/L)	Hardness (mg/L)
Control water:	199	-
30% Sample:	465	-

Salinity [E]	ppt
Mysid control:	22.7
Menidia control:	22.7
Mysid 30% sample:	22.7
Menidia 30% sample:	22.7
unadjusted 100% sample:	2.7

[E] Salinity based on conductivity and temperature.

Table 2. Results of chemical analyses on the effluent from Rayonier, Incorporated sampled on June 3, 2002.

Metals

Aluminum	1,070	ug/L	
Cadmium	0.24	ug/L	
Calcium	534	mg/L	
Chromium	8.2	ug/L	
Copper	6	ug/L	J
Iron_271	1,210	ug/L	
Lead	1.9	ug/L	I
Magnesium	31.9	mg/L	
Nickel	40.4	ug/L	
Silver	0.078	ug/L	I
Zinc	27	ug/L	

Nutrients

Ammonia-N	1	mg N/L
Nitrates and Nitrites	0.114	mg N/L
Total Kjeldahl Nitrogen	24	mg N/L
Ortho-Phosphate	0.075	mg P/L
Total Phosphorous	1.8	mg P/L

Base, Neutral, & Acid Extractable Organics

Phenol	1.7	ug/L	I
2,4,6-Trichlorophenol	3	ug/L	I

Pesticides and Herbicides

None detected

[J] The reported value is an estimated value.
[I] The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 3. Chemical Analysis performed on the effluent from Rayonier, Incorporated, sampled on June 3, 2002.

Date Sampled	Field ID	Analysis Group	Component	Result	Units	Remark	MDL	PQL
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Aluminum	657	ug/L		10	40
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Arsenic	30	ug/L	U	30	120
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Cadmium	0.12	ug/L	U	0.12	0.5
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Calcium	912	mg/L		1	6
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Chromium	20	ug/L	U	20	80
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Copper	7.4	ug/L	A	0.5	2
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Iron_271	680	ug/L	I	250	1.00E+03
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Lead	1.2	ug/L	U	1.2	5
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Magnesium	1.56E+03	mg/L		0.3	1.2
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Nickel	20	ug/L	U	20	80
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Selenium	40	ug/L	U	40	160
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Silver	0.1	ug/L	U	0.1	0.4
6/3/2002 11:15	CLEAR SEWER	Metals-Water	Zinc	120	ug/L	U	30	120
6/3/2002 8:50	D001	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	76
6/3/2002 8:50	D001	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
6/3/2002 8:50	D001	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2,4,6-Trichlorophenol	3	ug/L	I	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
6/3/2002 8:50	D001	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
6/3/2002 8:50	D001	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	D001	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
6/3/2002 8:50	D001	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
6/3/2002 8:50	D001	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	76
6/3/2002 8:50	D001	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	4-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
6/3/2002 8:50	D001	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	7,12-Dimethylbenz(a)anthrace	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Azobenzene/1,2-Diphenylhydra	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Benzidine	95	ug/L	U	95	380
6/3/2002 8:50	D001	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	D001	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
6/3/2002 8:50	D001	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
6/3/2002 8:50	D001	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
6/3/2002 8:50	D001	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
6/3/2002 8:50	D001	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Methyl methanesulfonate	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	D001	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
6/3/2002 8:50	D001	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
6/3/2002 8:50	D001	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
6/3/2002 8:50	D001	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
6/3/2002 8:50	D001	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Phenol	1.7	ug/L	I	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
6/3/2002 8:50	D001	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	D001	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	D001	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	D001	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
6/3/2002 8:50	D001	GC-Water	Ametryn	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Atrazine	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Azinphos Methyl	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	D001	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	D001	GC-Water	Chlorpyrifos Ethyl	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Chlorpyrifos Methyl	0.096	ug/L	U	0.096	0.384

6/3/2002 8:50	D001	GC-Water	Diazinon	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Ethion	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Ethoprop	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	D001	GC-Water	Fonofos	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Hexazinone	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Malathion	0.14	ug/L	U	0.14	0.56
6/3/2002 8:50	D001	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
6/3/2002 8:50	D001	GC-Water	Metolachlor	0.48	ug/L	U	0.48	1.92
6/3/2002 8:50	D001	GC-Water	Metribuzin	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	D001	GC-Water	Naled	0.77	ug/L	U	0.77	3.08
6/3/2002 8:50	D001	GC-Water	Norflurazon	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Parathion Ethyl	0.14	ug/L	U	0.14	0.56
6/3/2002 8:50	D001	GC-Water	Parathion Methyl	0.096	ug/L	U	0.096	0.384
6/3/2002 8:50	D001	GC-Water	Phorate	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	GC-Water	Prometryn	0.14	ug/L	U	0.14	0.56
6/3/2002 8:50	D001	GC-Water	Simazine	0.048	ug/L	U	0.048	0.192
6/3/2002 8:50	D001	Metals-Water	Aluminum	1.07E+03	ug/L		10	40
6/3/2002 8:50	D001	Metals-Water	Arsenic	3	ug/L	U	3	12
6/3/2002 8:50	D001	Metals-Water	Cadmium	0.24	ug/L		0.025	0.1
6/3/2002 8:50	D001	Metals-Water	Calcium	534	mg/L		0.2	1.2
6/3/2002 8:50	D001	Metals-Water	Chromium	8.2	ug/L		2	8
6/3/2002 8:50	D001	Metals-Water	Copper	6	ug/L	J	0.5	2
6/3/2002 8:50	D001	Metals-Water	Iron_271	1.21E+03	ug/L		25	100
6/3/2002 8:50	D001	Metals-Water	Lead	1.9	ug/L	I	1.2	5
6/3/2002 8:50	D001	Metals-Water	Magnesium	31.9	mg/L		0.015	0.06
6/3/2002 8:50	D001	Metals-Water	Nickel	40.4	ug/L		2	8
6/3/2002 8:50	D001	Metals-Water	Selenium	4	ug/L	U	4	16
6/3/2002 8:50	D001	Metals-Water	Silver	0.078	ug/L	I	0.02	0.08
6/3/2002 8:50	D001	Metals-Water	Zinc	27	ug/L		3	12
6/3/2002 8:50	D001	Nutrients-Liquid	Ammonia-N	1	mg N/L		0.01	0.02
6/3/2002 8:50	D001	Nutrients-Liquid	NO2NO3-N	0.13	mg N/L		0.02	0.05
6/3/2002 8:50	D001	Nutrients-Liquid	N_KJEL_TOT	24	mg N/L		0.6	2
6/3/2002 8:50	D001	Nutrients-Liquid	O-Phosphate-P	0.075	mg P/L		0.016	0.04
6/3/2002 8:50	D001	Nutrients-Liquid	Total-P	1.8	mg P/L		0.16	0.4
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,2,4,5-Tetrachlorobenzene	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,2,4-Trichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,2-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,3,5-Trinitrobenzene	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,3-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,3-Dinitrobenzene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,4-Dichlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1,4-Naphthoquinone	19	ug/L	U	19	76
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	1-Naphthylamine	9.5	ug/L	U	9.5	38
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,3,4,6-Tetrachlorophenol	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4,5-Trichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4,6-Trichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4-Dimethylphenol	48	ug/L	U	48	190
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4-Dinitrophenol	14	ug/L	U	14	57
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,4-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,6-Dichlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2,6-Dinitrotoluene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Acetylaminofluorene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Chloronaphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Chlorophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Methyl-4,6-dinitrophenol	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Methylnaphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Naphthylamine	9.5	ug/L	U	9.5	38
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Nitrophenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	2-Picoline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	3,3'-Dichlorobenzidine	38	ug/L	U	38	150
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	3,3'-Dimethylbenzidine	19	ug/L	U	19	76
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	3-Methylcholanthrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	3-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4,4'-DDD	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4,4'-DDE	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4,4'-DDT	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Aminobiphenyl	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Bromophenyl phenyl ether	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Chloro-3-methylphenol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Chloroaniline	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Chlorophenyl phenyl ether	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Nitroaniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	4-Nitrophenol	14	ug/L	U	14	57
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	5-Nitro-o-toluidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	7,12-Dimethylbenz(a)anthrace	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Acenaphthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Acenaphthylene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Acetophenone	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Aldrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Aniline	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Azobenzene/1,2-Diphenylhydra	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzidine	95	ug/L	U	95	380
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzo(a)anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzo(a)pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzo(b)fluoranthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzo(g,h,i)perylene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzo(k)fluoranthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Benzyl alcohol	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Bis(2-chloroethoxy)methane	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Bis(2-chloroethyl)ether	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Bis(2-chloroisopropyl)ether	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Bis(2-ethylhexyl)phthalate	14	ug/L	U	14	57
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Butyl benzyl phthalate	4.8	ug/L	U	4.8	19
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Chrysene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Di-n-butyl phthalate	4.8	ug/L	U	4.8	19
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Di-n-octyl phthalate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dibenzo(a,h)anthracene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dibenzofuran	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dieldrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Diethyl phthalate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dimethyl phthalate	48	ug/L	U	48	190
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dimethylaminoazobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Dinoseb	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Diphenylamine	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Endosulfan I	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Endosulfan II	3.8	ug/L	U	3.8	15

6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Endosulfan sulfate	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Endrin	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Endrin aldehyde	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Ethyl methanesulfonate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Fluoranthene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Fluorene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Heptachlor	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Heptachlor epoxide	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Hexachlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Hexachlorobutadiene	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Hexachlorocyclopentadiene	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Hexachloroethane	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Hexachloropropene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Indeno(1,2,3-cd)pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Isophorone	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Isosafrole	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Methapyrilene	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Methyl methanesulfonate	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosodi-n-butylamine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosodi-n-propylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosodiethylamine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosodimethylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosodiphenylamine	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosomethylethylamine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosomorpholine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosopiperidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	N-Nitrosopyrrolidine	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Naphthalene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Nitrobenzene	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Nitroquinoline-1-oxide	19	ug/L	U	19	76
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pentachlorobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pentachloroethane	48	ug/L	U	48	190
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pentachloronitrobenzene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pentachlorophenol	2.9	ug/L	U	2.9	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Phenacetin	3.8	ug/L	U	3.8	11
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Phenanthrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Phenol	0.95	ug/L	U	0.95	3.8

6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pyrene	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Pyridine	3.8	ug/L	U	3.8	15
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	Safrole	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	alpha-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	beta-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	delta-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	gamma-BHC	1.4	ug/L	U	1.4	5.7
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	m,p-Cresols	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	o-Cresol	1.9	ug/L	U	1.9	7.6
6/3/2002 8:50	EQUIPMENT BLA	BNA-Water	o-Toluidine	0.95	ug/L	U	0.95	3.8
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Alachlor	0.58	ug/L	U	0.58	2.32
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Ametryn	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Atrazine	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Azinphos Methyl	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Bromacil	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Butylate	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Chlorpyrifos Ethyl	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Chlorpyrifos Methyl	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Diazinon	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Ethion	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Ethoprop	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Fenamiphos	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Fonofos	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Hexazinone	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Malathion	0.15	ug/L	U	0.15	0.6
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Metalaxyl	0.24	ug/L	U	0.24	0.96
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Metolachlor	0.49	ug/L	U	0.49	1.96
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Metribuzin	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Mevinphos	0.19	ug/L	U	0.19	0.76
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Naled	0.78	ug/L	U	0.78	3.12
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Norflurazon	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Parathion Ethyl	0.15	ug/L	U	0.15	0.6
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Parathion Methyl	0.097	ug/L	U	0.097	0.388
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Phorate	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Prometryn	0.15	ug/L	U	0.15	0.6
6/3/2002 8:50	EQUIPMENT BLA	GC-Water	Simazine	0.049	ug/L	U	0.049	0.196
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Aluminum	10	ug/L	U	10	40

6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Arsenic	3	ug/L	U	3	12
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Cadmium	0.025	ug/L	U	0.025	0.1
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Calcium	0.05	mg/L	U	0.05	0.3
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Chromium	2	ug/L	U	2	8
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Copper	1.3	ug/L	U	0.5	2
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Iron_271	25	ug/L	U	25	100
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Lead	0.25	ug/L	U	0.25	1
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Magnesium	0.015	mg/L	U	0.015	0.06
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Nickel	2	ug/L	U	2	8
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Selenium	0.5	ug/L	U	0.5	2
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Silver	0.02	ug/L	U	0.02	0.08
6/3/2002 8:50	EQUIPMENT BLA	Metals-Water	Zinc	3	ug/L	U	3	12
6/3/2002 8:50	EQUIPMENT BLA	Nutrients-Liquid	Ammonia-N	0.01	mg N/L	U	0.01	0.02
6/3/2002 8:50	EQUIPMENT BLA	Nutrients-Liquid	NO2NO3-N	0.016	mg N/L		0.004	0.01
6/3/2002 8:50	EQUIPMENT BLA	Nutrients-Liquid	N_KJEL_TOT	0.06	mg N/L	U	0.06	0.2
6/3/2002 8:50	EQUIPMENT BLA	Nutrients-Liquid	O-Phosphate-P	0.004	mg P/L	U	0.004	0.01
6/3/2002 8:50	EQUIPMENT BLA	Nutrients-Liquid	Total-P	0.004	mg P/L	U	0.004	0.01

The Bioassay of Rayonier, Incorporated effluent sampled on June 3, 2002, NPDES #FL0000701.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code		NPDES NUMBER		YR/MO/DA		Insp Type	Inspector	Fac Type
1 N	2 5	3 F L 0 0 0 0 7 0 1 # #		0 2 0 6 0 3		# **B**	# **S**	# 2

Remarks

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The Priority Pollutants Analysis for Bioassay of Rayonier, Incorporated effluent sampled on June 3, 2002, NPDES #FL0000701.

Fill Out This Section For All Surface Water Discharger Inspections(CEI, CSI, CBI, PAI, XSI-RI Optional)

Transaction Code		NPDES NUMBER		YR/MO/DA		Insp Type	Inspector	Fac Type
1 N	2 5	3 F L 0 0 0 0 7 0 1 # #		0 2 0 6 0 3		# **B**	# **S**	# 2

Remarks

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